## STANDARD STRAIGHT BAR

BAR	* LOCATION CATEGORY			
SIZE	А	В	C	
#.4	1'-5''	1'-0''	1'-0''	
#5	1'-9''	1'-3''	1'-0''	
#6	2'-2''	1'-6''	l'-·3''	
#.7	2'-7''	1'-10''	1'-6''	
#.8	3'-4''	2′-5′′	'-  ''	
#.9	4'-3''	3'-0''	2'-5''	
#10	5'-4''	3′-10′′	3′-1′′	
#	6'-7''	4'-8''	3'-9''	

## \* LOCATION CATEGORY:

- A-Bars in horizontal layers in top of pour with 12" or more of concrete below them such as in: footings, pier caps, etc.
- B-All bars not in Category A spaced less than 6" apart. C-All bars not in Category A spaced 6" or more apart.

FHWA APPROVAL

DATE:

## Note:

- I. When development length is not specified on the Plans, the above dimensions shall be used.
- 2. These development lengths do not apply when bar is in lightweight concrete or any other strength of concrete.

3. These development lengths only apply where the

General Notes indicate "Reinforcing Steel Design, fy = 60 ksi."

4.If depth of member does not allow bar development length indicated in Categories A, B, and C; then hook shall be added to all bars not conforming, as per D, E, and F per Std. No. M(6.10)-86-180.

APPROVAL				
C.S. Treedmon DIRECTOR OFFICE OF STRUCTURES				
DATE: 2/2/90				
REVISIONS				
SHA	FHWA			
11-23-93				
1-22-01				

9-20-05

11-26-07

## STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

DEVELOPMENT LENGTH DIMENSIONS FOR GRADE 60 REINFORCING STEEL IN MIX NO.6 (4500 P.S.I.) CONCRETE NON-EPOXY COATED REINFORCING

**STANDARD NO.** M(6,16)-90-216(L)

SHEET  $\perp$  OF 3